

DEVICES FOR MEASURING LIGHT FROM A SOURCE *IN SITU*

ABSTRACT OF THE DISCLOSURE

A device for measuring light from a source includes a photometer and a collector. The photometer may include a detector, circuitry for processing output signals from the detector, and an output such as an LCD display. The collector engages with the photometer such that light from the source is incident on the detector and ambient light is prevented from entering. The collector may be configured to be releasably engageable with the photometer. A plurality of interchangeable collectors may be provided so that a single photometer is enabled to measure light from a plurality of sources. The collector may include a hood for engaging the source to block ambient light. The collector may also include optics disposed within the hood for directing light from the source onto the detector. The optics may include an optical diffuser disposed within the hood such that light from the source first passes through the diffuser to be incident on the detector. The optics may also include a reflective layer disposed on an inside of the hood for reflecting light within the hood. The measuring device may be utilized for measuring light from a variety of sources, such as sources that utilize LED arrays. Further, the measuring device may be configured to measure light from a source without having to remove the source from the installation site, such as traffic signals.